

Patent Claims

- 5 1. Cooling ceiling installation with at least one heat exchanger, a valve, which controls the flow of a heat transfer medium through the heat exchanger and a mechanical control device, and a monitoring device against condensate formation, **characterised in** that
- 10 the monitoring device (4, 5, 6, 11) has an adjustment drive (39), which mechanically displaces the control device (4) to a state, in which the valve (3) is closed.
- 15 2. Installation according to claim 1, characterised in that the adjustment drive (39) is located on a unit formed by the valve (3) and the control device (4).
- 20 3. Installation according to claim 1, characterised in that the control device has a sensing device (5) located remotely from the valve (3), and that the adjustment drive (39) is arranged on the sensing device (5).
- 25 4. Installation according to one of the claims 1 to 3, characterised in that the adjustment drive comprises a motor and a gear (36, 37).
- 30 5. Installation according to claim 4, characterised in that the motor is a rotary motor.
6. Installation according to one of the claims 1 to 5, characterised in that the adjustment drive (39) has

an end position sensor (50) indicating a completely closed state of the valve (3).

7. Installation according to claim 6, characterised in  
5 that the end position sensor (50) detects, if a transfer element (22) of the adjustment drive (39) loads a tappet (23) of the valve (3).
8. Installation according to one of the claims 1 to 7,  
10 characterised in that the monitoring device (6) has a sensor in the form of a dew-point sensor or a humidity sensor.
9. Installation according to claim 8, characterised in  
15 that the sensor (7) is arranged on the heat exchanger (2) or its inlet (8).
10. Installation according to one of the claims 1 to 9,  
20 characterised in that the monitoring device (6) is located laterally next to a space, which forms an extension of the lifting movement of a valve element (18) of the valve (3).
11. Installation according to one of the claims 1 to 10,  
25 characterised in that the adjustment drive (39) adjusts a desired value (S).
12. Installation according to one of the claims 1 to 11,  
30 characterised in that the adjustment drive (39) mechanically blocks an active connection between the valve (3) and the control unit (4).

13. Installation according to one of the claims 1 to 11, characterised in that further to the heat exchanger (2) a heating surface (9) is provided, whose operating member is connected with the valve (3).

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14. Installation according to claim 13, characterised in that the operating member (10) is a heating valve, which is controlled by the valve (3) with a follow-up control, a neutral zone (N) being provided between the activation of the valve (3) and the heating valve (10).  
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